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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/775,543	02/09/2004	Chien-Min Sung	21154.CIP2	6708	
75	7590 03/17/2005			EXAMINER	
M. Wayne Western			PIZARRO CRESPO, MARCOS D		
THORPE NOR	TH & WESTERN, LLP				
P.O. Box 1219			ART UNIT	PAPER NUMBER	
SANDY, UT	SANDY, UT 84091-1219				
			DATE MAILED: 03/17/200:	5	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)			
	10/775,543	SUNG, CHIEN-MIN			
Office Action Summary	Examiner	Art Unit			
	Marcos D. Pizarro-Crespo	2814			
The MAILING DATE of this communication of Period for Reply	<u> </u>	he correspondence address			
A SHORTENED STATUTORY PERIOD FOR REI THE MAILING DATE OF THIS COMMUNICATIO - Extensions of time may be available under the provisions of 37 CFR after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a - If NO period for reply is specified above, the maximum statutory peri - Failure to reply within the set or extended period for reply will, by sta Any reply received by the Office later than three months after the may earned patent term adjustment. See 37 CFR 1.704(b).	N. 1.136(a). In no event, however, may a reply reply within the statutory minimum of thirty (30 tod will apply and will expire SIX (6) MONTHS tute, cause the application to become ABAND	be timely filed) days will be considered timely. from the mailing date of this communication. ONED (35 U.S.C. § 133).			
Status					
1) Responsive to communication(s) filed on 09	February 2004.				
2a) ☐ This action is FINAL . 2b) ☑ This action is non-final.					
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice unde	er <i>Ex parte Quayle</i> , 1935 C.D. 11	I, 453 O.G. 213.			
Disposition of Claims					
4)⊠ Claim(s) <u>1-36</u> is/are pending in the applicati	on.				
4a) Of the above claim(s) is/are without	rawn from consideration.				
5) Claim(s) is/are allowed.					
6)☐ Claim(s) is/are rejected.					
7)⊠ Claim(s) <u>6,16 and 20</u> is/are objected to.					
8) Claim(s) <u>1-36</u> are subject to restriction and/	or election requirement.				
Application Papers		•			
9) The specification is objected to by the Exam	iner.				
10)☐ The drawing(s) filed on is/are: a)☐ a	ccepted or b) objected to by t	he Examiner.			
Applicant may not request that any objection to t	he drawing(s) be held in abeyance.	See 37 CFR 1.85(a).			
Replacement drawing sheet(s) including the corr	ection is required if the drawing(s) is	s objected to. See 37 CFR 1.121(d).			
11) ☐ The oath or declaration is objected to by the	Examiner. Note the attached Of	ffice Action or form PTO-152.			
Priority under 35 U.S.C. § 119					
12) Acknowledgment is made of a claim for fore	an priority under 35 U.S.C. § 11	9(a)-(d) or (f)			
a) ☐ All b) ☐ Some * c) ☐ None of:	gir priority ariable de d.d.d. g. r.	(u) (u) (i).			
1. ☐ Certified copies of the priority docume	ents have been received.	•			
2. Certified copies of the priority docume		ication No.			
3. Copies of the certified copies of the p	• •				
application from the International Bur	eau (PCT Rule 17.2(a)).	-			
* See the attached detailed Office action for a l	ist of the certified copies not rec	eived.			
Attachment(s)	" .	(777)			
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948)		mary (PTO-413) ail Date			
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/	08) 5) 🔲 Notice of Inform	nal Patent Application (PTO-152)			
Paper No(s)/Mail Date	6) Other:				
U.S. Patent and Trademark Office PTOL-326 (Rev. 1-04) Office	Action Summary	Part of Paper No./Mail Date 0305			

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Attorney's Docket Number: 21154.CIP2

Filing Date: 2/9/2004

Claimed Priority Dates: 6/2/2003 (CIP of 10/453,469)

10/11/2002 (CIP of 10/270,018)

Applicant(s): Sung

Examiner: Marcos D. Pizarro-Crespo

DETAILED ACTION

This Office action responds to application ser. No. 10/775,543 filed on 2/9/2004.

Claim Objections

- 1. Claims 6, 16, and 20 are objected to because of the following informalities: The numbering of the claims is not in accordance with 37 CFR 1.75(f) which requires the original claims to be numbered consecutively. In the instant case, there are two claims 6, two claims 16, and two claims 20. Appropriate correction is required.
- 2. If amending the claims to comply with 37 CFR 1.75(f), be advised that the numbering of claims should also comply with 37 CFR 1.126 which requires the original numbering of the claims to be preserved throughout the prosecution. When claims are canceled, the remaining claims must not be renumbered. When new claims are presented, they must be numbered consecutively beginning with the number next following the highest numbered claims previously presented (whether entered or not).

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Election/Restrictions

3. Restriction to one of the following inventions is required under 35 U.S.C. 121:

I. Claims 1-22, drawn to a heat spreader, classified in class 257, subclass

122.

II. Claims 23-26, drawn to method of making a heat spreader, classified in

class 438, subclass 122.

4. The inventions are distinct, each from the other because of the following reasons:

5. Inventions I and II are related as product and process of making the product.

The inventions are distinct if either or both of the following can be shown: (1) that the

process as claimed can be used to make other and materially different product or (2)

that the product as claimed can be made by another and materially different process

(MPEP § 806.05(f)). In the instant case, unpatentability of the group-I invention would

not necessarily imply unpatentability of the group-II invention since the method of the

group-II invention could be used to make a materially different product than that of the

group-I invention. For example, instead of the diamond-containing material of claim 1

having a thermal conductivity gradient decreasing from the heat influx region to the heat

exit region, the step in claim 23 of forming the diamond-containing material having the

variable gradient could be used to form a diamond-containing material that has a

constant gradient from the heat influx region to the heat exit region, but that decreases

in a direction moving parallel and equidistant to both regions.

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- 6. Because these inventions are distinct for the reasons given above and have acquired a separate status in the art as shown by their different classification, restriction for examination purposes as indicated is proper.
- 7. Applicant is advised that the reply to this requirement to be complete must include an election of the invention to be examined even though the requirement be traversed (37 CFR 1.143).

Conclusion

- 8. Papers related to this application may be submitted directly to Art Unit 2814 by facsimile transmission. Papers should be faxed to Art Unit 2814 via the Art Unit 2814 Fax Center. The faxing of such papers must conform to the notice published in the Official Gazette, 1096 OG 30 (15 November 1989). The Art Unit 2814 Fax Center number is (703) 872-9306. The Art Unit 2814 Fax Center is to be used only for papers related to Art Unit 2814 applications.
- 9. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Marcos D. Pizarro-Crespo at (571) 272-1716 and between the hours of 9:30 AM to 8:00 PM (Eastern Standard Time) Monday through Thursday or by e-mail via Marcos.Pizarro@uspto.gov. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Wael Fahmy, can be reached on (571) 272-1705.
- 10. Any inquiry of a general nature or relating to the status of this application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or

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Public PAIR. Status information for unpublished applications is available through

Private PAIR only. For more information about the PAIR system, see http://pair-

direct.uspto.gov. Should you have questions on access to the Private PAIR system,

contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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MDP/mdp March 11, 2005